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This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:** 

1. (Currently Amended) A tissue removal device, comprising:

an elongate shaft having a distal end and a proximal end, wherein the elongate shaft

defines a longitudinal axis;

a bag support defining an opening, the bag support being collapsible and expandable to

open and close the opening;

a bag operatively attached to the bag support, the bag having a first edge and a second

edge, an open first end operatively secured to the bag support and a closed end, the first end

being connected to the support so that when the bag support is in the collapsed position the bag

opening is substantially closed; and

the bag having folds including at least one transverse fold, wherein the at least one

transverse fold extends at least partially from the first edge toward the second edge such that an

angle less than 90° is defined relative to the longitudinal axis.

2. (Original) The tissue removal device of claim 1, further comprising a tube for

receiving the shaft, bag support and bag.

3. (Original) The tissue removal device of claim 1, wherein the folds include folds

approximately parallel with the longitudinal axis.

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4. (Original) The tissue removal device of claim 1, further including a sheath disposed

about the bag assembly.

5. (Original) The tissue removal device of claim 4, wherein the sheath includes a

weakness for breaking away from the bag.

6. (Original) The tissue removal device of claim 4, wherein the sheath is fabricated from

a flexible heat shrinking polymer.

7. (Original) The tissue removal device of claim 6, wherein the sheath is in the form of at

least one of a mesh, net and lattice.

8. (Original) The tissue removal device of claim 4, further comprising an actuation

system operatively connected to the sheath in order to facilitate removal of the sheath from the

bag assembly.

9. (Previously Presented) The tissue removal device of claim 8, wherein the actuation

system includes a tear line formed in the sheath to facilitate tearing of the sheath.

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10. (Original) The tissue removal device of claim 9, wherein the actuation system

includes a cord operatively connected to the tear line for facilitating the tearing of the sheath

along the tear line.

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11. (Original) The tissue removal device of claim 10, wherein the cord is connected to a

control portion at the proximal end of the shaft.

12. (Original) The tissue removal device of claim 9, wherein the actuation system

includes an expandable member positioned within the bag assembly.

13. (Original) The tissue removal device of claim 12, wherein expansion of the

expandable member is initiated remotely from the bag.

14. (Original) The tissue removal device of claim 1, wherein the bag has a proximal edge

and a distal edge and includes a slot formed in the vicinity of the bag support near the proximal

edge to enable the diameter of the bag to be adjusted.

15. (Original) The tissue removal device of claim 14, wherein the bag includes a control

line for drawing the slot closed.

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16. (Original) The tissue removal device of claim 1, wherein the bag is conical in shape.

17. (Original) The tissue removal device of claim 1, wherein the bag is trapezoidal in

shape.

18. (Original) The tissue removal device of claim 1, further comprising a control portion

operatively coupled to the proximal end of the shaft.

19. (Currently Amended) A method of collapsing a bag of a tissue removal device, the

method comprising the steps of:

providing a minimally invasive tissue removal device including

a shaft having a distal end and a proximal end and defining a longitudinal axis;

a bag support; and

a bag attached to the bag support, the bag having a first edge and a second edge,

an upper end operatively coupled to the bag support and a lower end, and

folding the bag transversely with respect to the longitudinal axis such that at least one

transverse fold is formed, wherein the at least one transverse fold extends at least partially from

the first edge toward the second edge such that an angle less than 90° is defined relative to the

longitudinal axis.

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20. (Original) The method according to claim 19, wherein the bag is folded onto itself

such that the proximal edge crosses the distal edge.

21. (Original) The method according to claim 19, further comprising folding the bag so

that the folds are approximately parallel to the longitudinal axis.

22. (Original) The method according to claim 19, wherein the bag support has a

collapsed position and an expanded position and further comprising closing the upper end of the

bag using the support.

23. (Original) The method according to claim 22, wherein the bag is folded onto itself

such that the proximal terminal edge of the bag is substantially parallel with the longitudinal

axis.

24. (Original) The method according to claim 19, wherein the bag is folded onto itself

such that the proximal terminal edge of the bag is substantially aligned with the longitudinal axis.

25. (Original) The method according to claim 20, wherein the bag is folded so that a

portion of the bag is disposed distally of a distal end of the support.

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26. (Original) The method according to claim 19, further comprising the step of placing the folded bag and bag structure into a sheath.

27. (Original) The method according to claim 26, wherein the sheath includes a

weakness and further comprising tearing the sheath at the weakness so as to release the bag.

28. (Currently Amended) A minimally invasive tissue removal device for passage

through a cannula, the device comprising:

an elongate shaft having a distal end portion and a proximal end portion, the elongate

shaft defining a longitudinal axis;

a bag assembly operatively coupled to the distal end portion of the shaft, the bag

assembly including:

a bag support structure having a first position and a second position; and

a bag having an upper end and a lower end, the upper end having an open position

and a closed position and being operatively secured to the bag support such that when the bag

support is in the first position, the upper end of the bag is substantially open and when the bag

support is in the second position, the upper end of the bag is substantially closed;

the bag being folded over onto itself so as to form [[a]] at least one transverse fold

defining a fold axis, wherein the fold axis defines an angle between 0° and 90° relative to the

longitudinal axis.

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29. (Previously Presented) The tissue removal device according to claim 28, further comprising a removable sheath disposed about the bag assembly when in the bag is in the folded condition.

30. (Original) The tissue removal device according to claim 29, wherein the bag has a proximal edge and a distal edge and wherein the bag is folded such that the proximal edge is substantially aligned with the longitudinal axis.

31. (Currently Amended) A minimally invasive tissue removal device for passage through a trocar, the device comprising:

an elongate shaft having a distal end portion and a proximal end portion, the elongate shaft defining a longitudinal axis;

a bag support at the distal end of the shaft having a first position and a second position, the bag defining a plane in the first position; and

a bag having an open end and a closed end opposite the open end, the bag extending along a bag axis which is perpendicular to the longitudinal axis, the bag having an open position and a closed position;

wherein the bag is folded over onto itself such that the axis of the fold is substantially non-parallel <u>and non-orthogonal</u> to the longitudinal axis of the shaft.

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32. (Original) The tissue removal device of claim 31, wherein the bag is folded into a cylinder adjacent the bag support.

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